Mimulus Memo

California Native Plant Society
KERN CHAPTER

JUNE 2022

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EVENTS

JUNE
10,11,12 – Campout
at Horse Meadow

16 – Meeting 6:00 – 8:30pm
(see Upcoming Events, p. 9)

JULY
NO MEETING

AUGUST
NO MEETING

Spring 2022:
A Flurry of Activity for Kern CNPS

by Nancy Nies

AFTER TWO QUIET YEARS WITH ONLY THE OCCASIONAL – though interesting and informative – Zoom presentation, members of Kern CNPS had a variety of opportunities to get "out and about" this spring: a native-plant garden tour in Bakersfield, wildflower walks at the rural homes of members in the Woody and Keene areas; and five field trips, to nearby valley and mountain locations. Each event offered something different for participants to enjoy. Here are a few highlights.

Photos by Nancy Nies unless otherwise noted.

Eschscholzia californica
(California poppy)

MARCH 3
Sand Ridge Wildflower Preserve, near Bakersfield, with Greg Warrick

Our first in-person chapter activity in two years was a memorable visit to nearby Sand Ridge, where we saw a profusion of **poppies**, **lupine**, **thistle sage**, **desert dandelion**, **suncups**, **white layia**, **pincushion**, **brittlebush**, and, with its buds just starting to open, **four o'clocks**. The many clumps of **Bakersfield cactus**, each with numerous buds not yet open, awaited their time to bloom. The vivid colors of the rainbow of species more than compensated for the overcast day. **Greg**, who manages the preserve, provided us with a tour and much interesting information.

MARCH 22
Lucy Clark & Clyde Golden's, near Woody

On a sunny afternoon, we headed for the hills to see what was blooming at **Lucy** and **Clyde**'s. We were thrilled to see fields turned white and orange with **popcorn flower** and **fiddleneck**, a hillside full of **spider lupine**, large swaths of **bird's eye gilia**, and the star of the show – a large colony of the rare and "fairly threatened" ***Diplacus pictus***. This, our chapter's logo flower, also known as ***Mimulus pictus*** and **calico monkeyflower**, looked hale and hearty in its boulder habitat. Another boulder outcropping was home to

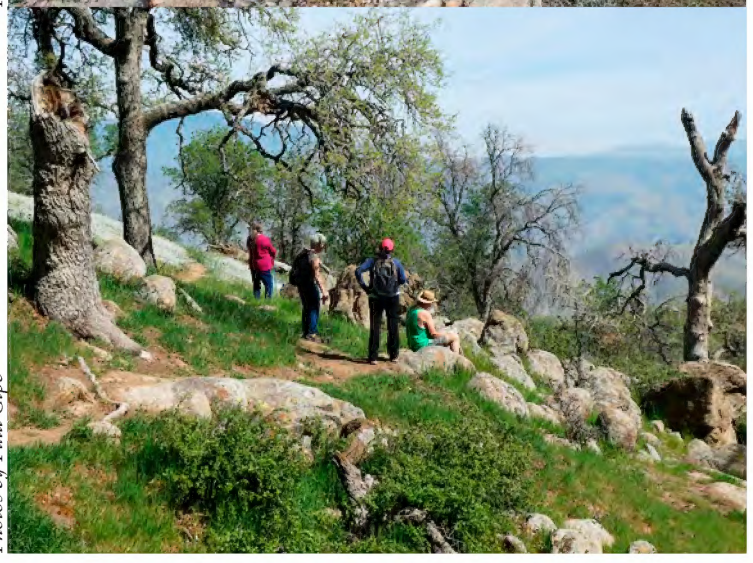
Diplacus pictus
(calico
monkeyflower)

deerweed, with its yellow blooms, and a thicket of **gooseberry bushes**, laden with fruit.

MARCH 26
Native-Plant Garden Tour, Bakersfield

It was a beautiful morning for the first Kern CNPS garden tour in more than two years. A dozen chapter members visited the Bakersfield gardens of **Deborah Osborn** and **Laura Cattani**, both featuring a mix of native and non-native plants. Asked to name the plants she found most memorable, tour organizer **Monica Tudor** mentioned the **senna** and **penstemon** species in Debbie's garden and the **Fremontodendron** and **manzanita** in Laura's. New chapter member **Megan Means**, who found the tour inspiring, particularly liked the **desert mallow** and was impressed by the fact so many plants did so well with so little water.

Photo by Vicky Marlow.



Photos by Paul Gipe

Below: Garden tour participants visit Deborah Osborn's garden. **Left**: ***Penstemon spectabilis*** (showy penstemon).

Above: Bill and Deb lead chapter members on a wildflower walk at their place in Keene. **Right column top**: ***Diplacus sp.*** (monkeyflower)

MARCH 26
Bill Moffat & Deb See's, Keene

Deb and **Bill** led us on a lovely walk of discovery, literally in their back yard, on a trail created by Bill himself. It began with a deeply shaded downhill segment through the lush, green foliage of **fiesta flower**, **miner's lettuce** and **man-root**, the latter two with their white flowers on display. Emerging from the shade, we were treated to the sight of sunny hillsides carpeted in the white of **popcorn flower** and the orange of **fiddleneck**. Fewer in number, but nonetheless exciting to find, were a **yellow violet** (*Viola sp.*) and a small, deep-pink **monkeyflower** (*Diplacus sp.*) At our April 21 meeting, Deb and Bill reported that **fiesta flower**, **Ithuriel's spear**, **penstemon**, and **chinese houses** were then blooming.

Above: Kern CNPS group pauses to examine a plant along the Mill Creek trail. **Right:** ***Collinsia heterophylla*** (purple chinese houses)

APRIL 16
Mill Creek Trail, Kern Canyon
with Clyde Golden

The cool, gray day was brightened by the vivid colors of the abundant wildflowers we found along the trail. Catching our eye were the pink of **linanthus**, the purple of **chia**, the orange of **fiddleneck** and **poppies**, the deep pink of **elegant clarkia** and **owl's clover**, the lavender of **Ithuriel's spear**, the cream of **caterpillar phacelia**, the blue of **fiesta flower**, the deep orange of **Indian pink** (*Silene californica*) and the yellow of **pygmy poppy** (*Eschscholzia covillei*) and **sylvan scorzonella** (*Microseris sylvatica*). A highlight was the discovery of a hillside covered with **purple chinese houses** (*Collinsia heterophylla*).

Above: Libby Vincent walks among the blue dicks at the Nature Conservancy's Loop Ranch, north of Tehachapi, 23 April. Right: ***Dichelostemma capitatum*** (blue dicks)

APRIL 23
The Nature Conservancy's Loop Ranch, near Caliente, with Zach Principe & Rachel Mason

On this newly-acquired addition to TNC's holdings, in the mountains north of Tehachapi (el. 4200), it was still early spring, and the ***Dichelostemma capitatum*** (**blue dicks**) was at its peak. The purple blooms, against a backdrop of snow-covered mountains to the south, were breathtaking. On various stops along the scenic drive through the ranch, we also enjoyed beautiful displays of **popcorn flower**, **globe gilia**, **goldfields**, and **caterpillar phacelia** – as well as a colony of the rare ***Diplacus pictus***. (See March 22, above.)

APRIL 30
Lockwood Creek Trail, Los Padres NF with Pam DeVries

Botanist **Pam DeVries**, author of **A Field Guide to the Plants of the San Emigdio Mountains Region of California**, led us on a walk along the trail, where there was much to see: **Mt. Pinos onion**, **California lomatium**, **California mugwort**, **Fremont pincushion**, **narrowleaf goldenbush**, **Pringle's wooly-sunflower**, **desert dandelion**, **Davidson's phacelia**, **rattlesnake sandmat**, **bajada lupine**, **Mojave suncup**, **California evening primrose**, **scarlet bugler**, **San Joaquin blazingstar**, **California Indian breadroot**, **evening snow**, **Wright's buckwheat**, **purple violet**, and, last but certainly not least, a large colony of the rare ***Fritillaria agrestis*** (**stinkbells**).

Fritillaria agrestis (stinkbells)

Above: Chapter members on the trail at Tomo-Kahni State Historic Park, 7 May. Right: ***Layia heterotricha*** (paleyellow tidytips).

MAY 7
Tomo-Kahni SHP, near Tehachapi with Ernie Lostaunau & John Hasselbrink

Leading our group on a scenic hiking tour, docent **Ernie Lostaunau** was a fount of information on the **Kawaiisu**, the native people who lived in the area for two to three thousand years, and what they left behind – petroglyphs, pictographs and bedrock mortars.

What's more, nature had provided us with a spectacular show of colorful wildflowers, bringing cheer to the gray day. Both driving to the trailhead and starting up the trail, we were surrounded by masses of ***Layia heterotricha*** (**paleyellow tidytips**). This species has a rare-plant ranking of 1B.1, which indicates "seriously threatened" status, but seeing it blooming so prolifically here, you would never know it. Other stand-outs along the trail were the reds and oranges of **paintbrush**, the lavenders and purples of **phacelia**, the whites of **popcorn flower** and **whorled lupine**, and the yellows of **Mojave suncups**, **goldenbush**, **desert parsley**, **coreopsis**, **goldfields**, **pebble pincushion**, and more. The day's many "wow moments" included the discovery of a hillside abloom with **Coulter's jewelflower** and a sighting of the rare ***Allium shevockii*** (**Spanish needle onion**).

Following a two-year hiatus, Kern CNPS was able to return to its usual lineup of spring activities, giving members the chance once again to witness the wonderful variety of native wildflowers in our area — the simple and the showy, the rare and the abundant — both in gardens and in the wild. We had hoped for that chance, and the spring of 2022 did not disappoint! ✿

President's Message: Herbaria in Bakersfield

Bakersfield College Herbarium Now the Buena Vista Museum of Natural History and Science Herbarium

THE BAKERSFIELD COLLEGE HERBARIUM was recently transferred to the **Buena Vista Museum of Natural History and Science**. I mentioned — in the June (p. 5) and September (p. 6) 2021 issues of the ***Mimulus Memo*** — its history as judged from the specimens I saw, and a listing of the species by family and genus which I had placed on the CNPS Kern Chapter website under ***"Checklists"*** and ***"Kern County"***, last updated by the late Professor **Raymond Draper** in January 1997. Publications related to the herbarium are cited after the endnotes.

Recently, on May 14, I visited the herbarium and met with the Executive Director, **Koral Hancharick**, the Collections Manager, **Clint Osman**, and other assistants. I was shown material that I had not seen before, stored in separate wooden cabinets. Included were binders containing pressed specimens, each specimen protected by rigid transparent plastic cover. This material was organized by major plant and fungal phyla (including lichens)[i], the vascular plants further sorted by plant families. Additionally, there are thousands of microscope slides filed in slide boxes and holder trays. The slides were probably purchased over the years from a source such as Carolina Biological Supply. Obviously, this entire collection was created and expanded for student use in teaching courses in General Botany, Plant Anatomy, Plant Morphology, and Plant Taxonomy, while the vascular plant herbarium itself seemed largely focused on the flora of Kern County. I can't help but wonder: *"Is botany no longer being taught at the college level?"* The herbarium was started approximately 100 years ago, when it was referred to as the "**Herbarium of Kern County Union High School**".

Photos by Richard Spjut.

Top left: Sorting shelves in metal herbarium case. Blue tabs attached to manila folders have family names, yellow tags are for genus names, and the species names are indicated on paper folders containing the white herbarium paper with mounted specimens. **Top right:** Tray of slides, one slide shown close-up below, bottom right, indicating *Ectocarpus,* a brown alga. **Lower Left:** Boxes of slides labeled *Puccinia* Uredinia (a pustular mass in which urediaspores are dispersed from a uredinium in species of rust fungus in the genus *Puccinia*) and *Cladophora* (genus of multicellular, filamentous, branched green algae found in streams, lakes.)

The Buena Vista Museum soon plans to register their herbarium with **Index Herbariorum**[ii] under which it will be assigned an acronym-like code. They will apply for grants and seek volunteers to assist in digitizing the specimens and their collection data, to be made available to the public via internet through the **Consortium of California Herbaria (CCH)**. I encourage our chapter to make a financial contribution to the herbarium. It may help if our board members could visit the herbarium, preferably in groups of three or four. Their plant collection manager, Clint Osman, has prepared a guide for visitor use while he and others would gladly show you the herbarium. Then you will really see and appreciate, first-hand, the past efforts made by the BC professors to teach students all about botany. Advance notice and permission to view the herbarium is required; contact **Clint Osman, 661 324 6350**, to make an appointment.

The World Botanical Associates Herbarium

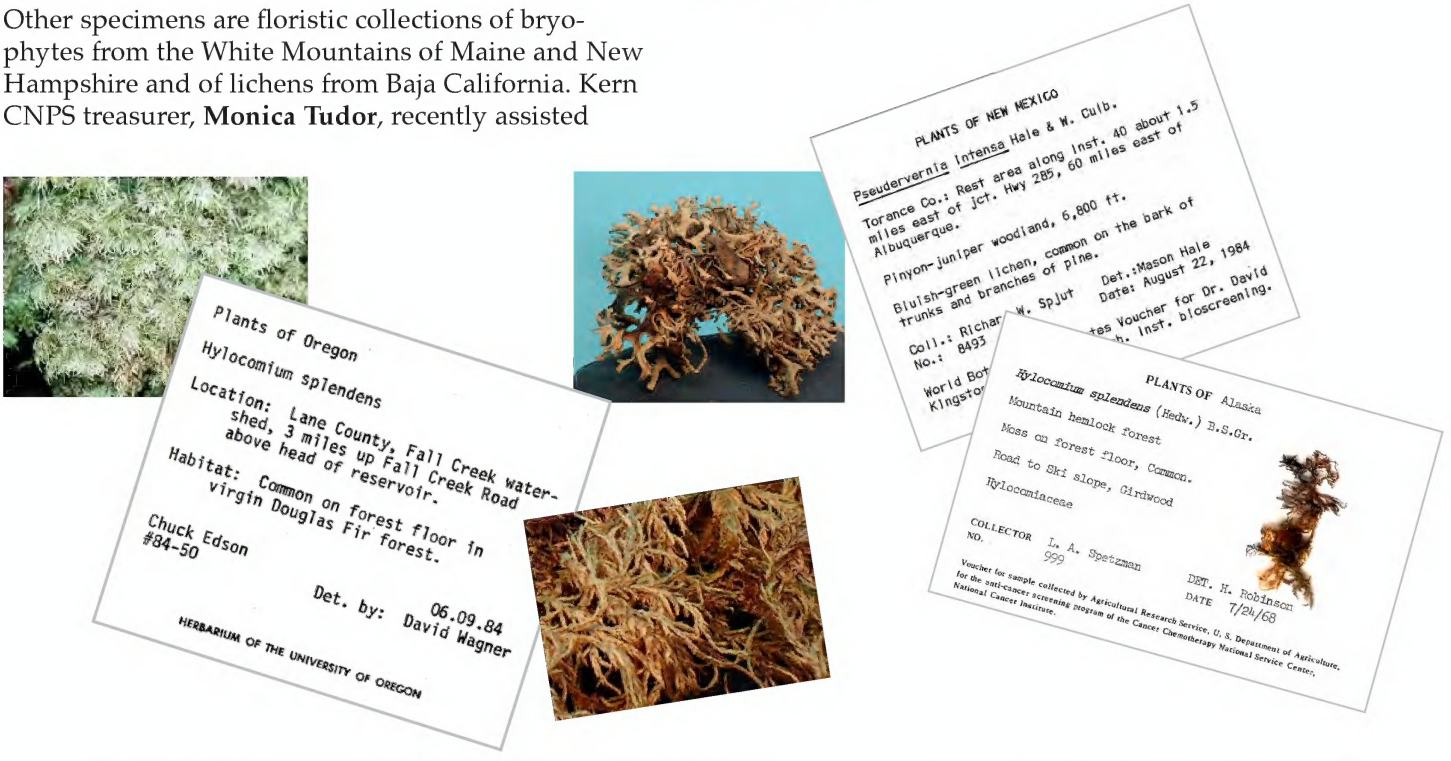
Another herbarium in Bakersfield is that of the **World Botanical Associates (WBA)**. Images for a few specimens are exhibited here, while photos taken in the field and of mounted specimens have been placed on **Calflora** (for those specimens collected in California). The herbarium was started in May 1983, the year after the **National Cancer Institute** discontinued its agreement with the **USDA Agricultural Research Service** in searching for new anticancer drugs from plants. Although specimens in the WBA herbarium have been frequently cited in journal publications by natural product chemists, I have kept the herbarium private as opposed to registering it with the Index Herbariorum because of its uncertain future. Originally located in Laurel, MD, it was limited to bryophytes and lichens; later vascular plants were included (on mounted specimens stored in standard fire-proof herbarium cases) when transferred to Temecula, CA in 2001, and relocated again to Bakersfield in 2004. Most specimens were collected in Mexico and the United States (includ-

Plants for Pharmaceutical Screening
Metrosideros tremuloides (A. Heller) Knuth
Hawaii. Oahu: Leeward side of Koolau Mts., Honolulu Watershed Forest Reserve, just E of Honolulu: Puu Ohia Trail off Round Top Drive, near Tantalus, ~2.5 mi from trailhead; 21°19'51.2"N, 157°48'51.4", 550-700 m. Agro-hortica-exotica rain forest.
Predominant tree to 7 m high, trunk to 30 cm in diam., older trees with aerial roots hanging, occurring with less frequent M. polymorpha, flowers with red exserted stamens.
Coll.: Richard Spjut & Richard Marin: 15644 08-Oct-03
Det.: R. Spjut & R. Sanders
Voucher for samples collected for the National Cancer Institute (Contract No. N02-CM-1710), World Botanical Associates, Temecula, CA 92593-0880.

Left to right: Field photo, voucher (herbarium) specimen, and close-up of herbarium label for *Metrosideros tremuloides* (Myrtaceae) filed in the WBA Herbarium for samples collected on Oahu, Hawaii, shipped to the National Cancer Institute, Natural Products Branch in Frederick, MD.

ing Alaska and Hawaii). Duplicates of vouchers for samples collected for pharmaceutical screening were deposited in other institutions. Those collected during 2001-04 are listed on the WBA website as part of a final report, "*Appendix I. List of Families/Genera/Species/Plant Species Collected*". Scanned images of the specimens are made available on the WBA website, searchable in Google by typing the *genus name* followed by "*World Botanical*".

Other specimens are floristic collections of bryophytes from the White Mountains of Maine and New Hampshire and of lichens from Baja California. Kern CNPS treasurer, **Monica Tudor**, recently assisted in shipping more than 1,000 WBA specimens to the **United States National Herbarium (US)**, which is located in the **Museum of Natural History, Smithsonian Institution**, and to the **California Academy of Sciences (CAS)**. Additionally, you may recall seeing **Dorie Giragosian** at chapter meetings creating specimen packets in which the lichen specimens were placed. I also plan to ship the entire bryophyte herbarium to CAS when time to do this becomes available. ✿


PLANTS OF NEW MEXICO
Pseudevernia intensa Hale & W. Culb.
Torrance Co.: Rest area along Inst. 40 about 1.5 miles east of jct. Hwy 285, 60 miles east of Albuquerque.
Pinyon-juniper woodland, 6,800 ft.
Bluish-green lichen, common on the bark of trunks and branches of pine.
Det.:Mason Hale
Date: August 22, 1984
Plants of Oregon
Hylocomium splendens
Location: Lane County, Fall Creek watershed, 3 miles up Fall Creek Road above head of reservoir.
Habitat: Common on forest floor in virgin Douglas Fir forest.
Chuck Edson
#84-50
Det. by: David Wagner 06.09.84
HERBARIUM OF THE UNIVERSITY OF OREGON
PLANTS OF Alaska
Hylocomium splendens (Hedw.) B.S.G.
Mountain hemlock forest
Moss on forest floor, Common.
Road to Ski slope, Girdwood
Hylocomiaceae
COLLECTOR L. A. Spetzman
NO. 999
DET. H. Robinson
DATE 7/24/68
Voucher for sample collected by Agricultural Research Service, U. S. Department of Agriculture, for the anti-cancer screening program of the Cancer Chemotherapy National Service Center, National Cancer Institute.

Images of field and herbarium specimens and their labels in the WBA herbarium. **Left to right:** *Hylocomium splendens* on rock in northern Vermont (photo by author, July 1991). Label and portion of specimen inside specimen packet to which the label is attached, collected by **Chuck Edson**, and identification determined (Det.) by **David Wagner**, duplicate of voucher at WBA. Specimen and label for lichen *Pseudevernia intense*, collected by author, identification determined by **Mason Hale**. *Hylocomium splendens* herbarium label and portion of specimen in packet. Collected by **Lloyd Spetzman** and the identification determined by the bryologist at the Smithsonian Institution, **Harold Robinson**.

ENDNOTES:

i A level of classification or taxonomic rank below kingdom and above class.

ii Index Herbariorum "A worldwide index of 3,100 herbaria and 12,000 associated staff where a total of 390 million botanical specimens are permanently housed." New York Botanical Garden (NYBG) website (http://sweetgum.nybg.org/science/ih/). A notice recently posted by NYBG: "There are 26 active herbaria in Ukraine, with 116 associated staff and about four million specimens listed in Index Herbariorum. We are attempting to provide updates about the status of those herbaria. As of 3 March 2022, we have received an update on CWU, the herbarium of Karazin University in Kharkiv. All staff appear to be safe, but some infrastructure has been damaged."

PUBLICATIONS RELATED TO THE HERBARIUM, MOSTLY PROFESSORS WHO TAUGHT AT BC.

Bauer, H. L. 1930. On the flora of the Tehachapi Mountains, California. Bull. S. California Acad. Sci. 29(2): 96-99.

Benson, L. 1936. A list of the vascular plants of Kern County, and three adjacent areas. Bakersfield Junior College. Bakersfield, CA. Additional Note: Lyman Benson is also the author of The Cacti of Arizona, University of Arizona Press, Tucson, 1950, 155 pp. He taught botany at BC.

Dibble, J. E. 1981. Kern River Preserve. Inventory of summer flowering plants. The Nature Conservancy. San Francisco, CA. 6 pp.

Draper, R. E. 1973. A floristic survey and study of ground cover on the Williams Preserve, California. The Nature Conservancy. San Francisco, CA. 29 pp.

Draper, R. E. 1973. Seed plants of Williams Preserve. The Nature Conservancy. San Francisco, CA. 7 pp.

Hewitt, R. 1984. Kern River Preserve herbarium specimens. The Nature Conservancy. San Francisco, CA. 6 pp.

Howell, J. T. & G. H. True, Jr. 1966. Kern Plateau botany, 1966. California Acad. Sci. San Francisco. 17 pp.

Howell, J. T. 1984. The Kernville Outing. Flore Buttensis 5(1): 23-33

Muns, B. Flora of the Mount Pinos region: summaries of major plant communities and annotated checklist of the vascular plants. Publ. by author. Arcadia, CA. 16 pp. [No date].

Muns, B. 1994. Mt. Pinos summit flora. Publ. by author. Arcadia, CA.

OTHER RELATED PUBLICATIONS

Harris, L. S. 1940. Wild flowers of Kern County, California. Porter Printing Co. Los Angeles, CA. 53 pp.

Moe, M. 1995. A key to the vascular plant species of Kern County, California. California Native Plant Society (CNPS), Sacramento, CA. Included with reprint of Twisselmann (1967), see below. Introduction i-iv. Pp. 1–225.

Moe, L. M. 1995. Synonymized list of vascular plants of Kern County. Crossosoma 20: 17-44.

Moe, L. M. 2016. Kern County Flora. CNPS, Sacramento, CA.

Twisselmann, E. C. 1961. Some weedy plants in Kern County, California and parts adjacent. Leaflts. West. Bot. 9(9 & 10): 142-146.

Twisselmann, E. C. 1963. A preliminary checklist of the flowering plants of Kern County, California. Publ. by author. Cholame, CA. 86 pp.

Twisselmann, E. C. 1963. Plant records in Kern County, California. Leaflts. West. Bot. 10(3 & 4): 46-64.

Twisselmann, E. C. 1966. Addendum to a preliminary checklist of the flowering plants of Kern County, California. Publ. by author. Cholame, CA. 15 pp.

Twisselmann, E. C. 1967. A flora of Kern County, California. Wasmann J. Biol. 25(1 & 2): 1-395.

Twisselmann, E. C. 1970. Toward a flora of Red Rock Canyon and the El Paso Range, the Mojave Desert, Kern County. Publ. by author. 36 pp.

Twisselmann, E. C. 1971. A botanical scanning of the Kern Plateau. Kern Plateau Assoc. Bakersfield, CA. 12 pp.

Thank You to:
... Greg Warrick, Center for Natural Lands Management, for providing a tour of Sand Ridge wildflower preserve.
... Lucy Clark & Clyde Golden for hosting our annual Mimulus Pictus Picnic.
... Deb See and Bill Moffat for a visit to their own nature trail.
... Deborah Osborn and Laura Cattani for hosting the native plant garden tours and Monica Tudor for putting it all together.
... Clyde Golden for his plant identification expertise on the Mill Creek hike.
... Zach Principe & Rachel Mason for providing a tour of The Nature Conservancy's recent additions in the Tehachapis.

Native plant admirer "botanizes" in the front yard.

Gardening with the Natives

by Monica Tudor

WELL, IT HAS BEEN A WHILE SINCE THE LAST report of my native plant garden. I confess, the back yard garden needs some TLC. The *Encelia actonii* (**Acton encelia**) has combined forces with the *Atriplex canescens* (**four wing saltbush**) and together they are well over 6 feet tall! Something has got to give, but I'm not sure if it will be the *Encelia* or the *Atriplex*.

Two of the beds that are near the grass have become infested with bermuda. Yuck. I grabbed my tools and cleared one bed out and am eyeing the other to get it cleared before the summer heat comes. I think they will remain cleared out until the fall plant sale, where I'm sure there will be many choices available to fill out the spaces. (More on the sale at the end of this article.)

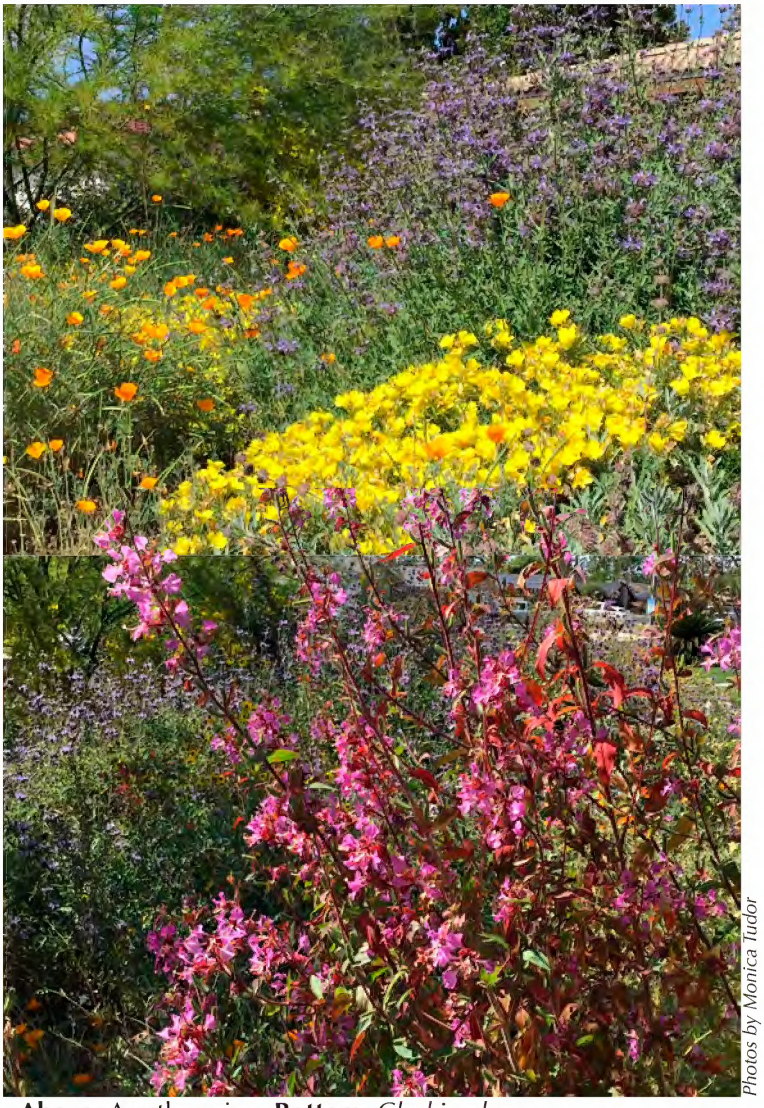
The front yard is pretty and in full bloom right now.

Left: Our front yard in full bloom.

It is buzzing with black bees and carpenter bees, and is home to lots of lizards, dove, finches, hummingbirds, etc.

Last fall in the open spaces of the yard, I planted *Clarkia elegans* (**clarkia)** and together with the *Eschscholzia* (California poppies), they make quite a display. **The Bees Bliss sage** was the first to bloom and is already done. **The Allen Chickering sages** have started blooming and will continue most of the summer. The Clarkia are almost finished blooming and I'll be pulling them soon. They get tall and look like thin sticks. It won't be necessary to keep each plant until the seeds reach ultimate ripeness because they are very prolific self-seeders and a few go a long way. There were even some **salvia** that volunteered, and of course, lots and lots of *Sphaeralcea ambigua* (**desert** or **apricot mallow**) also volunteered.

Things will begin to dry out as the weather warms, and then it will be time for trimming out the annuals. I don't usually trim all at the same time because the plants are on their own time table. So I go and



Photos by Monica Tudor

Above: Another view **Bottom:** *Clarkia elegans*

do a little every few days or so until it is back to standards. Plus, that way the process is more enjoyable and not so much work. I love opening my front door and smelling the sages waft through the house. Or pulling up to my house and seeing all the colors and flowers and critters! And of course, just about everyone who comes over compliments the garden. Who can resist that?

Be on the look-out for our next plant sale. The link will be posted on our website, www.kerncnps.org, from **September 17 - 30**, plant pick-up will be **October 15**. And as usual, if you have any special requests, send me an email and every effort will be made to get them for you. Also, if you are growing native plants and want to donate them for the sale, let me know. ✿

Photos by Dinah Campbell.

Lucy climbs the hill above Horse Meadow.

Somewhat Annual... Kern CNPS Campout & Flower Viewing

by Lucy Clark

June 10, 11, 12, 2022 – Friday, Saturday & Sunday

HORSE MEADOW CAMPGROUND & SHERMAN PASS ROAD

Contact: **Lucy Clark**, lucyg391@gmail.com

RSVP Deadline: **8pm, June 6, 2022**

KERN CHAPTER CNPS HAS A LONG, BUT interrupted history of taking camping trips to see the native plants of our county, and to socialize. Long before I was an active member I read about **Randi McCormick**'s planned trips to the Sierra or the desert. About twelve years ago, we started the tradition again, and went to **Horse Meadow Campground**, south off of the Sherman Pass Road, located between 7,000 and 8,000 feet elevation. This campground has been a spot enjoyed for the wildflower hikes, complete with foot-soaking in the creek running through it!

We have missed this trip recently, and it is a really fun, relaxing time, looking at flowers, being in beautiful places, and learning a lot! Some of us will probably go up early on Friday, and some may stay later than Sunday. If you have time and wish to go early and stay late in this seldom used campground, there will surely be several of us interested! The last few years there has been no water, and again, this year you will need to bring your gallons of water.

Please email by the early date above, so we can work out details. Previously we have taken our food and drink and gathered at one campsite for dinner every night. This has worked well with a mixed group of carnivores and vegetarians. We also need time for you to arrange carpools if you want.

You will need all of your own equipment for camping, gallons of water, your food and drink, and cash to pay for a campsite: **$17 per day**, and **$5.00 for a second car**, if you share a campsite. Art supplies? Star Charts? The plant list for Horse Meadow Campground and Sherman Pass Road, for sure! (Found on our website, *Kern.CNPS.org*.) We will work out sharing stoves, if necessary. Start planning now!

Anyone who wants to attend on Saturday only, should also RSVP, and we will plan where and when to meet you. Carpools might be arranged for day trippers, also. And maybe we will go again in August, if there is interest!

More info coming when I hear from you! The sooner the better. ✿

Relaxing at Horse Meadow Campground in 2018.

Saving California's Sequoias
UK Foundation to the Rescue

adapted from KQED California Report

AN ORGANIZATION IN THE UK HAS A PLAN, to save **Giant Sequoias** from climate change. Wildfires have killed up to one-fifth of sequoias. The organization - **One Life One Tree** — theorizes that as California gets hotter and drier, Sequoias might have a better chance at survival in the milder UK environment and have plans to plant 100,000 sequoias in parts of the UK. by 2030.

So far they've planted 700 at a location in Wales, with plans for other locations in Scotland, Devon, and the Lakes. Current seedlings are coming from cuttings received via the **Archangel Ancient Tree Archive** and 50 of those seedlings were from seeds harvested from **Stagg** and **Waterfall** — two of the largest and oldest sequoias in the Sierra Nevada. Stagg survived the 2020 Sequoia Crest fire. While Waterfall did not, its progeny emigrated to the UK. ✿

https://omny.fm/shows/kqed-segmented-audio/british-group-plants-trees-to-help-save-california

https://www.npr.org/2021/11/20/1057619710/sequoia-mortality

https://onelifeonetree.com/

https://www.mirror.co.uk/news/uk-news/grove-giant-sequoias-being-planted-26447432

https://www.usatoday.com/videos/news/nation/2021/11/02/new-sequoias-take-root-after-fire-guts-giant-trees/6253585001/

California Native Plant Society

CNPS is the leader for providing reliable information on California native plants and plant conservation. Comprehensive information about California's flora and vegetation communities is available throughout the state for conservation and educational purposes. CNPS's leadership influences personal ethics and actions, as well as public policy for native plant protection.

Chapter Meetings

upcoming TOPICS

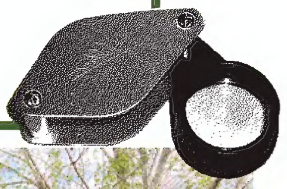
Thursday, June 16 2022 - 7pm
Presenter: **Richard Spjut,** botanist, Topic: *Biodiversity Patterns & Drug Discovery in Natural Products*

July and August, 2022
No meetings scheduled

All in-person chapter meetings are held the **3rd Thursday** of each month usually at 1300 17th Street, Room 1A or 1B, Bakersfield, CA. Check website for any change of venue.

Meeting times:
6 –8:30 pm, Socializing, plant ID and gardening discussion groups, followed by program presentation and concluding with a short business meeting.

Currently we are open to suggestions for topics and speakers. Ideas are welcome. Contact **Paul Gipe** (*pgipe@igc.org*). ✿



Photos by Monica Tudor

Elyse Goin and **Fred Chynoweth** represented Kern CNPS at WindWolves Preserve's Spring Nature Festival.

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The Kern Chapter of the California Native Plant Society currently meets the third Thursday of each month via Zoom:
Chapter website: *kern.cnps.org*

The California Native Plant Society is a non-profit organization dedicated to the conservation of California native plants and their natural habitats, and to increasing the understanding, appreciation, and horticultural use of native plants.

CNPS has 31 chapters throughout the state and membership is open to all persons – professional and amateur – with an interest in California's native plants. Members have diverse interests including natural history, botany, ecology, conservation, photography, drawing, hiking and gardening. As a Kern County resident, your membership includes **Flora Magazine**, a quarterly journal with interviews, conservation updates, gardening advice. **Artemesia**, CNPS's scientific journal and **The Mimulus Memo**, the Kern Chapter newsletter published quarterly.

Join CNPS or renew your membership online at *cnps.org*
Membership levels: $25, $50, $120, $500 ($25 minimum)
Go Perennial at $5/month

To **unsubscribe/subscribe** to Kern CNPS email communications members should contact: *membership@cnps.org* (916) 738-7604

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California Native Plant Society
KERN CHAPTER

Mimulus Memo

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